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NOTICE OF ALLOWANCE AND FEE(S) DUE

22116 7590 03/17/2009
SIEMENS CORPORATION
INTELLECTUAL PROPERTY DEPARTMENT
170 WOOD AVENUE SOUTH

ISELIN, NJ 08830

EXAMINER				
SHABMAN, MARK A				
ART UNIT	PAPER NUMBER			
2856				
DATE MAILED: 03/17/2009				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,369 12/06/2005		Wolfgang Ens	2003P07168WOUS	3633
TITLE OF INVENTION: A	COLLETTIC BICK TIB			

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further a indicated unless correcte	form should be used for correspondence includir d below or directed oth	or transmi ig the Pate icrwise in	itting the ISSU ent, advance of Block 1, by (a	JE FEE and PUBLICAT rders and notification of a) specifying a new corn	TION FEE (if requestion of the control of the contr	ired). I vill be ; and/o	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				No Fe pa	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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ISELIN, NJ 0883	30							(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR ATTOR			RNEY DOCKET NO.	CONFIRMATION NO.
10/559,369	12/06/2005			Wolfgang Ens		20	03P07168WOUS	3633
TITLE OF INVENTION:	ACOUSTIC PICK-UP							
APPLN, TYPE	SMALL ENTITY	Teerm	FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	U DEE	TOTAL FEE(S) DUE	DATE DUE
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"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.				(2) the faults of a single thin (taving as a finite tall registered attorney or agent) and the names of up to 2 registered patent autorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AT								
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Com	ified below	v, no assignee his form is NO	data will appear on the	patent. If an assign	ee is io	lentified below, the de	ocument has been filed for
(A) NAME OF ASSIC				(B) RESIDENCE: (CIT				
Please check the appropri	ate assignee category or	categories	(will not be pr	rinted on the patent):	Individual C	orporati	on or other private gro	oup entity Government
4a. The following fee(s) a	re submitted:		41	b. Payment of Fee(s): (Ple	ase first reapply a	ny prev	lously paid issue fee	shown above)
Issue Fee		5 m		A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			Payment by credit co The Director is hereb	y authorized to cha	rge the	required fee(s), any de	ficiency, or credit any	
				overpayment, to Dep	osit Account Numb	er	(enclose a	n extra copy of this form).
 Change in Entity Stat Applicant claims 	us (from status indicate) SMALL ENTITY state		CFR 1.27.	☐ b. Applicant is no lo	nger claiming SMA	LLEN	FITY status. See 37 Cl	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	Publication Fee (if req ecords of the United Sta	uired) will tes Patent :	not be accepte and Trademark					e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration !			
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10/559,369	12/06/2005	Wolfgang Ens	2003P07168WOUS	3633	
22116 7	590 03/17/2009	EXAMINER			
SIEMENS COR	PORATION	SHABMAN, MARK A			
	PROPERTY DEPART	ART UNIT	PAPER NUMBER		
170 WOOD AVE ISELIN, NJ 08830		2856			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 223 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 223 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/559,369 ENS ET AL. Notice of Allowability Examiner Art Unit MARK SHARMAN 2856 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendments filed 11 November 2008. 2. The allowed claim(s) is/are 5-7. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c) \subseteq \text{None of the:} 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Attachment(s)

1. Notice of References Cited (PTO-892)

Paper No./Mail Date

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

4. T Examiner's Comment Regarding Requirement for Deposit

3. Information Disclosure Statements (PTO/SB/08),

5. Notice of Informal Patent Application

7.

Examiner's Amendment/Comment

8. T Examiner's Statement of Reasons for Allowance

 Interview Summary (PTO-413), Paper No./Mail Date .

Other .

Application/Control Number: 10/559,369

Art Unit: 2856

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 1: on line 8 replace the phrase "a electronic circuit" with --an electronic circuit--.

Allowable Subject Matter

Claims 5-7 are allowed.

The following is an examiner's statement of reasons for allowance:

With regards to the independent claim 5 as amended, the prior art of record does not teach the splitting of a signal generated by a piezoelectric measuring element into two components, an evaluation signal comprising high frequency components (above a threshold level) and a supply signal comprising low frequency components (below the threshold). The Schoess reference teaches a splitting of the measurement signal into two components, however, the signal is first amplified and thus fails to teach the limitation of amplifying only the evaluation signal after it has been filtered. This allows the supply signal to remain in its original form for providing power to the circuit. The

Application/Control Number: 10/559,369

Art Unit: 2856

Yanagi reference teaches splitting a signal from a piezo element into two portions, one of high frequency and one of low frequency, however the high frequency component is used as a gate control signal for a gate circuit in which the output signal comprises only the low (supply) signal, and none of the high (evaluation) frequency components for indicating vibration. The Russell reference also fails to teach the splitting of a signal into two separate components, one suitable for providing power to the system and amplifying only the other for analysis. As the amplification of the evaluation signal plays a role in the detection of fault-related noise, its addition to the system is necessary for the functionality of the system as a whole. Further, it is noted that the threshold value of the system as described in the specification is equal to the normal operating noise in the system (i.e. 50 kHz) such that any fault-related noise in the system which occurs above that threshold value will be filtered out for transmission to an evaluation device. The prior art, alone or in combination fails to teach or provide the motivation to arrange or operate a sensing unit in the manner claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2856

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK SHABMAN whose telephone number is (571)270-3263. The examiner can normally be reached on M-F 8:00am - 4:30pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. S./ Examiner, Art Unit 2856 /Hezron Williams/ Supervisory Patent Examiner, Art Unit 2856